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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,072	01/28/2004	Jianmin Qiao	248157US77DIV	9478	
22850	7590 06/14/2005		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			SCHILLINGER, LAURA M		
** .* - *	SIREEI SIA, VA 22314		ART UNIT	PAPER NUMBER	
•			2813		
			DATE MAILED: 06/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/765,072	QIAO, JIANMIN	
Office Action Summary	Examiner	Art Unit	
	Laura M. Schillinger	2813	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address	s
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this commun D (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on 22 A	April 2005.		
	s action is non-final.		
3) Since this application is in condition for allowa		secution as to the mer	rits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) 11,12,14,15 and 17 is/are pending ir 4a) Of the above claim(s) 12,14,15 and 17 is/a 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 11 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/a	are withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examina 11.	cepted or b) objected to by the lead rawing(s) be held in abeyance. See ction is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received in Applicationity documents have been received in the contract of the contract o	on No ed in this National Stag	Н <b>е</b>
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	4) Interview Summary Paper No(s)/Mail Da  5) Notice of Informal P		
Paper No(s)/Mail Date 1/28/04.	6) Other:	( 10 102)	•

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## **DETAILED ACTION**

#### Election/Restrictions

Applicant's election with traverse of claim 11 in the reply filed on 4/22/05 is acknowledged. The traversal is on the ground(s) that the Examiner did not provide reasons for the restriction requirement and a burdensome search would not be required. This is not found persuasive because the mutually exclusive characteristic of each specie was identified for the Applicant; moreover such mutually exclusive characteristics would result in a burdensome search for the Examiner.

The requirement is still deemed proper and is therefore made FINAL.

Claims 12,14-15, and 17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected claims, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 4/22/05.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 11 is rejected under 35 U.S.C. 102(e) as being anticipated by Blosse et al ('512)

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The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

11. A method comprising selectively etching a trench dielectric layer and a contact dielectric layer in a structure comprising the trench dielectric layer, the contact dielectric layer, and an etch stop layer therebetween comprising undoped silicon oxide and having a hole therein, the hole containing a trench dielectric layer material, with an etch gas including C<sub>2</sub>H<sub>2</sub>F<sub>4</sub> (Abs., lines: 1-20 and Col.7, lines: 40-45 and Col.4-5, lines: 54-35).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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